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PTO/SB/05 (03-01)

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Approved for use through 10/31/2002. OMB 0851-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No. 3994994-131915

First Inventor Ting He

Title Substrates with Small Particle...

Express Mail Label No. EL749133655US

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

- ☒ Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original and a duplicate for fee processing)
- ☐ Applicant claims small entity status.
See 37 CFR 1.27.
- ☒ Specification [Total Pages 21]
(preferred arrangement set forth below)
 - Descriptive title of the invention
 - Cross Reference to Related Applications
 - Statement Regarding Fed sponsored R & D
 - Reference to sequence listing, a table, or a computer program listing appendix
 - Background of the Invention
 - Brief Summary of the Invention
 - Brief Description of the Drawings (if filed)
 - Detailed Description
 - Claim(s)
 - Abstract of the Disclosure
- ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets 5]
- Oath or Declaration [Total Pages]
 - ☐ Newly executed (original or copy)
 - ☐ Copy from a prior application (37 CFR 1.63 (d))
(for continuation/divisional with Box 18 completed)
 - ☐ **DELETION OF INVENTOR(S)**
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
- ☐ Application Data Sheet. See 37 CFR 1.76

ADDRESS TO: Assistant Commissioner for Patents
Box Patent Application
Washington, DC 20231

- ☐ CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
- Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)
 - ☐ Computer Readable Form (CRF)
 - Specification Sequence Listing on:
 - ☐ CD-ROM or CD-R (2 copies); or
 - ☐ paper
 - ☐ Statements verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

- ☐ Assignment Papers (cover sheet & document(s))
- ☐ 37 CFR 3.73(b) Statement of Power of Attorney (when there is an assignee)
- ☐ English Translation Document (if applicable)
- ☐ Information Disclosure Statement (IDS)/PTO-1449
- ☐ Preliminary Amendment
- ☒ Return Receipt Postcard (MPEP 503)
(Should be specifically itemized)
- ☐ Certified Copy of Priority Document(s) (if foreign priority is claimed)
- ☐ Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.
- Other:

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation ☐ Divisional ☒ Continuation-in-part (CIP)

of prior application No.: /

Prior application Information:

Examiner

Group Art Unit:

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

19. CORRESPONDENCE ADDRESS

☒ Customer Number or Bar Code Label

(Insert Customer No. or Attach barcode label here)

or ☐ Correspondence address below

Name	Edwin M. Baranowski				
Address	Porter Wright Morris & Arthur LLP				
	41 South High Street				
City	Columbus	State	Ohio	Zip Code	43215
Country	USA	Telephone	614-227-2188	Fax	227-2100

Name (Print/Type) Edwin M. Baranowski Registration No. (Attorney/Agent) 27,482

Signature *Edwin M. Baranowski* Date 24 July 01

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

07/24/01
13928 U.S. PTO

PORTER WRIGHT MORRIS & ARTHUR LLP
Attorneys & Counselors at Law

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Toll Free: 800-533-2794

By Express Mail Receipt No. EL749133655US on July 24, 2001

Box Patent Application
Commissioner for Patents
Washington, D.C. 20231

Re: Inventor: Ting He
Serial Number: To be assigned
Filed: July 24, 2001
Title: SUBSTRATES WITH SMALL PARTICLE SIZE METAL OXIDE WITH
NOBLE METAL CATALYST COATINGS AND THERMAL SPRAYING
METHODS FOR PRODUCING THE SAME

Dear Sir:

For filing, we are enclosing the following in the above-referenced application for United States Letters Patent:

1. Utility Patent Application Transmittal Form PTO/SB/05
2. Fee Transmittal Form PTO/SB/17, including Authorization re: Deposit Account 16-2326 (in duplicate)
3. Application for United States Letters Patent (21 pages, 23 claims); Abstract; 5 sheets of drawings (Figures 1A, 1B, 2A, 2B, 3A, 3B, 4)

The Declaration and Power of Attorney will be filed at a later date.

A Certificate of Filing by Express Mail follows on page 2 of this cover letter.

Please acknowledge receipt of the foregoing by stamping the enclosed postcard and returning it to us for our file.

Very truly yours,



Edwin M. Baranowski

Enclosures

FEE TRANSMITTAL for FY 2001

Patent fees are subject to annual revision.

TOTAL AMOUNT OF PAYMENT (\$) 1,474

Complete If Known

Application Number
Filing Date 24 July 2001
First Named Inventor Ting He
Examiner Name
Group Art Unit
Attorney Docket No. 3994994-131915

METHOD OF PAYMENT

1. ☒ The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:
- Deposit Account Number 16-2326
Deposit Account Name Porter Wright Morris & Arthur
- ☒ Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17
☐ Applicant claims small entity status. See 37 CFR 1.27
2. ☐ Payment Enclosed:
☐ Check ☐ Credit card ☐ Money Order ☐ Other

FEE CALCULATION

1. BASIC FILING FEE

Large Entity	Small Entity	Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid
101	710	201	355			Utility filing fee	710
106	320	206	180			Design filing fee	
107	490	207	245			Plant filing fee	
108	710	208	355			Reissue filing fee	
114	150	214	75			Provisional filing fee	

SUBTOTAL (1) (\$) 710

2. EXTRA CLAIM FEES

Total Claims 43 -20** = 23 X Fee from below 18 = 414
Independent Claims 4 -3** = 1 X Fee from below 80 = 80
Multiple Dependent 270 = 270

Large Entity	Small Entity	Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description
103	18	203	9			Claims in excess of 20
102	80	202	40			Independent claims in excess of 3
104	270	204	135			Multiple dependent claim, if not paid
109	80	209	40			** Reissue independent claims over original patent
110	18	210	9			** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$) 764

**or number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)

3. ADDITIONAL FEES

Large Entity	Small Entity	Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid
105	130	205	65			Surcharge - late filing fee or oath	
127	50	227	25			Surcharge - late provisional filing fee or cover sheet	
139	130	139	130			Non-English specification	
147	2,520	147	2,520			For filing a request for ex parte reexamination	
112	920*	112	920*			Requesting publication of SIR prior to Examiner action	
113	1,840*	113	1,840*			Requesting publication of SIR after Examiner action	
115	110	215	55			Extension for reply within first month	
116	390	216	195			Extension for reply within second month	
117	890	217	445			Extension for reply within third month	
118	1,390	218	695			Extension for reply within fourth month	
128	1,890	228	945			Extension for reply within fifth month	
119	310	219	155			Notice of Appeal	
120	310	220	155			Filing a brief in support of an appeal	
121	270	221	135			Request for oral hearing	
138	1,510	138	1,510			Petition to institute a public use proceeding	
140	110	240	55			Petition to revive - unavoidable	
141	1,240	241	620			Petition to revive - unintentional	
142	1,240	242	620			Utility issue fee (or reissue)	
143	440	243	220			Design issue fee	
144	600	244	300			Plant issue fee	
122	130	122	130			Petitions to the Commissioner	
123	50	123	50			Processing fee under 37 CFR 1.17(q)	
126	180	126	180			Submission of Information Disclosure Stmt	
581	40	581	40			Recording each patent assignment per property (times number of properties)	
146	710	246	355			Filing a submission after final rejection (37 CFR § 1.129(a))	
149	710	249	355			For each additional invention to be examined (37 CFR § 1.129(b))	
179	710	279	355			Request for Continued Examination (RCE)	
169	900	169	900			Request for expedited examination of a design application	

Other fee (specify)

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$)

SUBMITTED BY

Name (Print/Type) Edwin M. Baranowski Registration No. 27,482 Telephone 614-227-2188
Signature Edwin M. Baranowski Date 24 July 2001

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Box Patent Application
Commissioner for Patents

Inventor: Ting He
Title: SUBSTRATES WITH SMALL PARTICLE SIZE METAL OXIDE WITH NOBLE METAL
CATALYST COATINGS AND THERMAL SPRAYING METHODS FOR PRODUCING THE
SAME

July 24, 2001
Page 2

CERTIFICATE OF FILING BY EXPRESS MAIL

I hereby certify that this Application United States Letters Patent comprising:

1. Utility Patent Application Transmittal, PTO/SB/05
2. Fee Transmittal, PTO/SB/17, including Authorization re: Deposit Account
16-2326 (in duplicate)
3. Application for United States Letters Patent (21 pages, 23 claims);
Abstract; 5 sheets of drawings (Figures 1A, 1B, 2A, 2B, 3A, 3B, 4)

accompanied by an itemized postcard receipt, is being deposited with the United States Postal
Service by Express Mail Receipt No. EL749133655US in an envelope addressed to: Box Patent
Application, Commissioner for Patents, Washington, D.C. 20231 on July 24, 2001.


Edwin M. Baranowski